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(54) Title: ANTISTATIC COMPOSITION

(57) Abstract: An antistatic composition comprises (a) at least one ionic salt consisting of a nonpolymeric nitrogen onium cation and a weakly coordinating fluoroorganic anion, the conjugate acid of the anion being a superacid; and (b) at least one thermoplastic polymer. The composition exhibits good antistatic performance over a wide range of humidity levels.

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INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08K5/00 C09K3/16 //(C08K5/00,5:19,5:42,5:435)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08K C09K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 84 02798 A (MINNESOTA MINING & MFG) 19 July 1984 (1984-07-19) page 5, line 24 -page 6, line 36; claims 1,18-20 page 8, line 15 - line 26 ---	1,2
A	EP 0 363 094 A (MINNESOTA MINING & MFG) 11 April 1990 (1990-04-11) page 4, line 16 - line 17 examples ---	1,3,15
X	---	15
A	WO 90 05129 A (PPG INDUSTRIES INC) 17 May 1990 (1990-05-17) examples ---	1,2
A	EP 0 873 986 A (ALTECH COMPANY LIMITED) 28 October 1998 (1998-10-28) claims -----	1,2

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

6 April 2001

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8402798 A	19-07-1984	US 4570197 A	11-02-1986
		AU 564317 B	06-08-1987
		AU 2418584 A	02-08-1984
		BR 8307674 A	11-12-1984
		DE 3382707 D	09-09-1993
		DE 3382707 T	03-03-1994
		EP 0131587 A	23-01-1985
		JP 4039755 B	30-06-1992
		JP 60500468 T	04-04-1985

EP 0363094 A	11-04-1990	US 4873020 A	10-10-1989
		DE 68908066 D	09-09-1993
		DE 68908066 T	03-02-1994
		JP 2139026 A	29-05-1990

WO 9005129 A	17-05-1990	US 4904825 A	27-02-1990
		CA 2001561 A	08-05-1990
		EP 0442948 A	28-08-1991
		JP 4502911 T	28-05-1992
		US 5053531 A	01-10-1991
		US 5187214 A	16-02-1993

EP 0873986 A	28-10-1998	JP 10298539 A	10-11-1998
		CA 2235502 A	22-10-1998
		CN 1197100 A	28-10-1998
		US 6028132 A	22-02-2000
